

RECOVERY OF WASTE SOLVENT FLOW CHART

(East Lot Sketch Attached)

RECEIVED

MAY 23 1980

I. EAST LOT

BUREAU OF ENVIRONMENTAL
SANITATION

The distillation processing steps are carried out in the West end and involve the facilities immediately outside, on the West. The inside areas house the laboratory, boiler room and still room. The outside facilities are used to prepare solvents for distillation and to temporarily store the recovered solvents, and withdraw the semi-solid and solid waste sludges. The processing is done using the following steps:

- A. Transfer waste solvent to the "separator tank" "F". The capacity of this tank is 700 gallons. The solution is permitted to settle a minimum of 8 hours. Water and/or semi-solid materials are separated by gravity.
- B. Solvents are transferred by gravity, through a wire mesh screen into tank "E". The capacity of this tank is 150 gallons. This tank is set on the edge of a "spill-pit".
- C. The filtered solvents is transferred to storage tank "D". The capacity of this tank is 550 gallons. This provides more than 1 day's distillation capacity.
- D. The stored solvent is transferred by gravity to tank "A", the still-feed tank. The capacity of this tank is 150 gallons. This tank sets in larger dimension steel tank to provide spill protection.
- E. From tank "A" the solvent is pumped into the still. The still is used as a batch type facility. The operator fills

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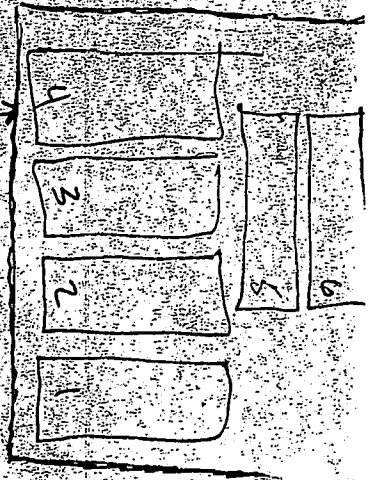
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the still, monitoring the level via an over-flow valve.

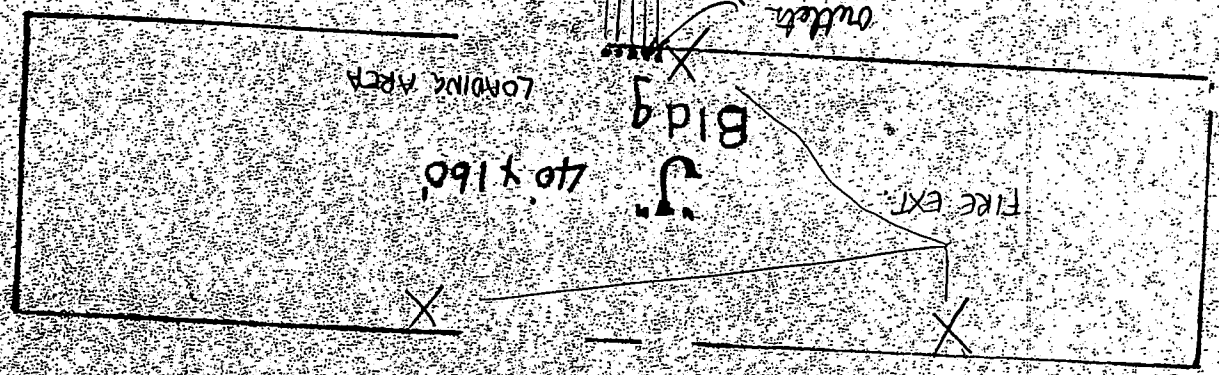
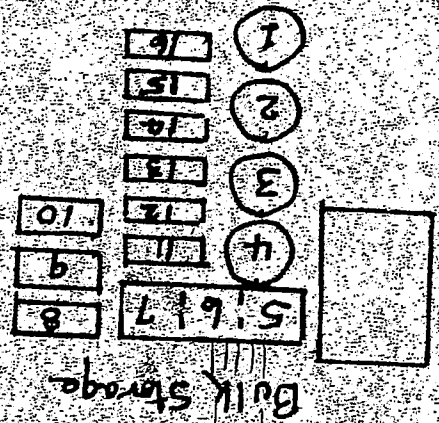
F. The operator takes note of the recovered solvent to determine the termination of the batch-distillation process. The volume of recovery is predetermined by laboratory analysis of the material being distilled. The recovered solvent is then pumped into storage tanks "B" and "C". The capacity of each tank is 500 gallons. From the storage tanks it is transferred into new steel drums and stored in building "J".

G. Sludge Treatment. The still is provided with rotating scrapers in order to prevent solid build up on the sides and bottom. When removed the consistency varies from semi-solid to solid type sludge. The semi-solid sludge is further processed in a solid sludge still where heat and steam drive out the solvents that the recovery process was unable to evaporate all residual solvents.

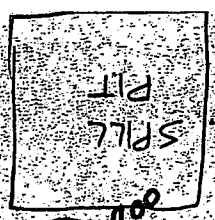
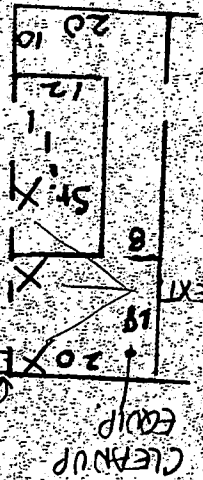
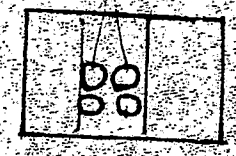
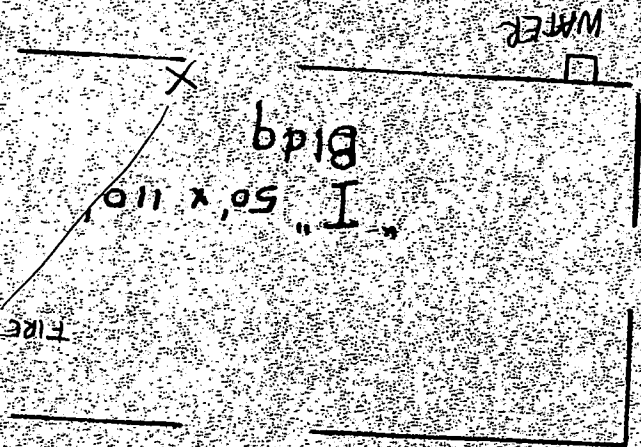
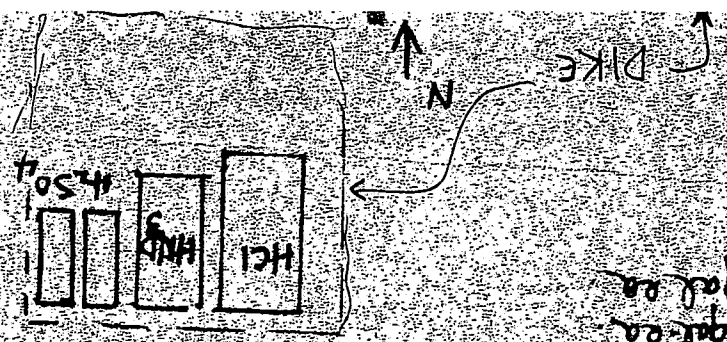
H. The sludge is then transferred to 55 gallon steel drums and stored for disposal to the Furley facility.



1-4 = 500 gal ea.
 5-7 = 3500 gal ea.
 8-10 = 1500 gal ea.
 11-16 = 500 gal ea.



EAST LOT



- Tanks
- A-Still feed
- B-Storage
- C-Storage
- Recovered Solvent
- D-Storage-Still
- P-Bump feed
- E-Final Filter
- F-Separator-Gravity